PM2000 and PM3000 Intelligent Power Distribution Units

PM2000 & PM3000 intelligent Power Distribution units (IPDUs) support outlet level metering and switching capability to provide datacenter professionals the tools they need to monitor, measure, reduce, and manage their growing power consumption costs of IT equipment. Thresholds can be created to allow datacenter teams to know before problems occur and minimize downtime caused by overloaded circuits. With the ability to support up to 22 kW and support for C19 outlets, the PM2000 and PM3000 IPDUs are well positioned to support the high rack density found in organizations today.

Measure power at the Outlet level

Outlet level metering and switching capability provides datacenter professionals the tools they need to monitor, measure, reduce and chargeback their growing power consumption costs of IT equipment while minimizing any downtime that could potentially be caused by overloaded circuits or hung up IT equipment.

Metering/Switching capabilities

Capture valuable information and control power to individual devices

- Metering per outlet with the PM2000 IPDUs
- Metering and switching per outlet with PM3000 IPDUs

Alarms and monitoring

The Avocent PM2000 and PM3000 IPDUs deliver accurate, real-time current monitoring of all connected devices via the web manager, DSView® 3 software or locally through an LED digital display. Users can set a current alarm threshold that, once exceeded, will cause the PM PDU to sound an alarm or send a notification message, or both.

Flexible management options

Avocent IPDUs can be combined with an ACS 6000 console server or DSR® KVM over IP switch to provide faster problem solving by integrating system access and power control in a single interface. Now you can see the remote devices and control their power using an integrated approach that allows you to actually see the remote device as it powers up or reboots. This integration provides instant feedback when critical issues are being resolved remotely.

DSView 3 management software integration

The DSView 3 software provides access and control to nearly all equipment found in today's data centers. The DSView 3 Power Manager extends the capability of the DSView 3 software by also giving companies the ability to monitor and measure IT energy consumption, costs, and trends across all levels within their data centers and remote locations. With the PM2000 & PM3000 IPDUs this information can allow you to look at individual devices, a rack of equipment, a row of equipment and group items together to view overall consumptions, capacity and cost across many locations or just a single device.

The PM2000 and PM3000 IPDUs (pictured) supply the power a data center needs.

Quick Facts

- Measure and monitor power consumption per outlet
- Create thresholds and alerts
- Remote switching capability to power on/off outlets (PM3000 models)
- Designed to work with other Avocent products for an integrated solution
- Manage with DSView 3 Power Manager for historical reporting

Avocent can help you answer questions like-

- Do you know how much power each piece of equipment is consuming?
- Do you have the capability to cycle the power to your local and remote servers?
- How do you limit who has permission to power cycle equipment and how is that activity logged?
- When you install new equipment, how do you ensure that you have power available?

Features and Benefits

- Outlet level, phase level, and strip level current/voltage/power metering with threshold/alert capabilities*. Provides preemptive notification of any impending overload issues before they occur, and simplifies the task of installing new equipment. *(Note- measurement resolution +/- %5)*
- Capability to remotely switch outlets through onboard web interface, DSView 3 management software (Not available on PM2000). Allows power to hung up IT equipment to be recycled, turned on or turned off remotely for faster resolution time.
- On board web interface. Can be installed for direct access right out of the box or it can be configured as part of a larger integrated solution using the DSView 3 software.
- IP and Serial interface options. Options to install by connecting directly to the network or save IP connections by using the serial interface to connect directly to Avocent appliances already connected to the network.
- Daisy chaining. Saves the number of IP addresses or console / KVM ports that are required to manage all power distribution needs.
- Integration with DSView 3 software. Single interface for management of IT equipment and IPDUs simplifies mapping of outlets to servers and other equipment to reduce and minimize power cycling the wrong equipment.
- Integration with DSView 3 Power Manager. Track historical trends to measure and monitor IT power consumption, capacity, and cost to understand what issues exist and to make more informed decisions in the future.
- Electronic Overcurrent Protection. Electronic Overcurrent Protection is an added layer of protection that is activated in the event of minor overloads. During such events, outlets are turned off first instead of the primary overcurrent protection (OCP) tripping.
- Sequential Startup. Protects integrity of all upstream electrical infrastructure by staggering the inrush current draw of all plugged in devices.
- Internal temperature sensor and two optional external sensors. These sensors can measure environmental factors at several different points within the rack.

Ordering Details

PM2000 Part Numbers	PM3000 Part Numbers	Description
North America		
PM2001H-401	PM3001H-401	Horizontal 1-ph 24A 200-240V with L6-30, 3 C19 ports
PM2002H-401	PM3002H-401	Horizontal 3-ph 24A 200-240V with L15-30, 6 C19 ports
PM2005H-403	PM3005H-403	Horizontal 3-ph 40A 200-240V with Hubbell® CS8365C, 6 C19 ports
PM2005H-404	PM3005H-404	Horizontal 3-ph 48A 200-240V with IEC 309 60A, 6 C19 ports
PM2001V-401	PM3001V-401	Vertical 1-ph 24A 200-240V with L6-30, 21 C13 & 3 C19 ports
PM2002V-401	PM3002V-401	Vertical 3-ph 24A 200-240V with L15-30, 21 C13 & 3 C19 ports
PM2005V-403	PM3005V-403	Vertical 3-ph 40A 200-240V with Hubbell CS8365C, 21 C13 & 3 C19 ports
PM2005V-404	PM3005V-404	Vertical 3-ph 48A 200-240V with IEC 309 60A, 21 C13 & 3 C19 ports
International		
PM2003H-401	PM3003H-401	Horizontal 1-ph 32A 220/230/240V with IEC 309 32A, 3 C19 ports
PM2004H-401	PM3004H-401	Horizontal 3-ph 16A 380/400/415V with IEC 309 16A, 6 C19 ports
PM2005H-406	PM3005H-406	Horizontal 3-ph 32A 380/400/415V with IEC 309 32A, 6 C19 ports
PM2003V-401	PM3003V-401	Vertical 1-ph 32A 220/230/240V with IEC 309 32A, 21 C13 & 3 C19 ports
PM2004V-401	PM3004V-401	Vertical 3-ph 16A 380/400/415V with IEC 309 16A, 21 C13 & 3 C19 ports
PM2005V-406	PM3005V-406	Vertical 3-ph 32A 380/400/415V with IEC 309 32A, 21 C13 & 3 C19 ports
External Sensors		
PMHD-THS		Temperature, Humidity, Air Flow and dry contact combo sensor
PMHD-TS		Temperature only sensor

Note: PM2000 models include per outlet metering capabilities
PM3000 models include per outlet metering and switching capabilities
AMP values listed on the North American models are rated at 80% based on national electric codes.

Specifications

Mechanical

Size: 17 x 8.272 x 1.719 in (horizontal), 2.2 x 66 x 3.15 in (vertical)
Weight: 7.3 lbs (horizontal without power cord), 14.8 lbs (vertical without power cord)

Environmental

Operating Temperature: 50 to 122 F (10 to 50 C)
Storage Temperature: -40 to 149 F (-40 to 65 C)

Network Connection

Number: 1
Type: 10/100/1000 Ethernet

Accessories Included

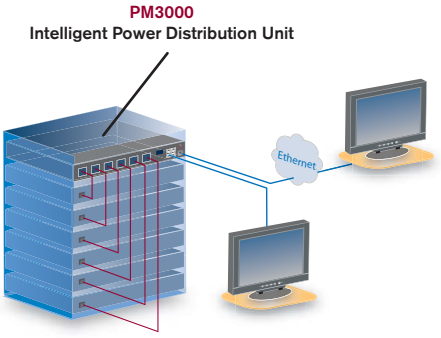
Rackmount kit, toolless mounting hardware with vertical models and outlet retention clips

Standards

Approved Agency:
UL, FCC, cUL, CE, VCCI, C-Tick, CB

Warranty

Two Year



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